EL009206

INTERNAL LETTER

NORTH AMERICAN AVIATION, INC.

FL11-4-5211

DATE · 8 June 1964

TO · E. G. Spencer
ADDRESS · 096-211
(Show Dept., Group, Div. & Location) Rocketdyne, SSFL

FROM · J. H. Baisley
ADDRESS · 096-211
Rocketdyne, SSFL

PHONE · 5031

SUBJECT · Weekly Progress Report
(Servo Systems Unit)
Week Ending 6 June 1964

EFL Test Stand 1-A 5 x 8 Systems (G. Smith)

Two 5 x 8 regulators were modified and prepared for shipment to EFL.

EFL Test Stand 1-A Helium and Gox Control Systems (G. Smith)

Design of the in-line surge chamber was completed.

EFL Test Stand 1-D 5 x 8 Systems (G. Smith)

The 5 x 8 systems were used for liquid level control during shaker tests for determining stand frequencies.

EFL Test Stand 2-A Lox and Fuel Pressurizing Systems (G. Smith/J. Runner)

A flow-limited servo valve and servo block were shipped to EFL for use with the converted fuel regulator.

Redacted

CTL-3 Cell 16B J-2 Gas Generator Servo System (R. Ellis/ E. Buchanan)

Both oxidizer and fuel control system position loops were successfully operated.

Coca I Battleship Tank LN_2 Chill-Down System (K. Schurman/G. Smith)

The servo system wiring diagram was started. Method of connecting the override controller to the existing thermocouple circuits was discussed with D/096-216.

FORM 131-3-1 NEW 1-63

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HDMSp01756562

Delta-2 Fuel Pressurizing System (W. Doi)

A controller modified for use with a DC transducer was installed.

VTS-2 Pressurizing Systems (G. Montgomery)

SK9700 solid state controllers were installed and subsequent engine tests conducted.

Special Test Equipment (S. Goldstein)

The Brush recorder for the Equipment Lab was returned after overhaul and modification by the manufacturer.

SK9700 Controllers (E. Buchanan)

Five controllers were received from the L. A. Division. This delivery makes fourteen of the original order of nineteen delivered.

Servo Valves (J. Runner)

Seven hydraulic amplifier units for JS1144901-300 valves were received. Four pre-tested first stage assemblies for JS1144902 valves were received.

Cycling tests of the dry lubricated spool and bushing were completed. 46,040 cycles were made before termination of test.

Futurecraft Ball Valves (J. Runner)

The new design seats are being fabricated. All actuators are being equipped with Teflon O-rings as the valves are received on the preventative maintenance schedule.

J. H. Baisley, Supervisor
Servo Systems Unit
Analysis and Equipment Section

JHB:ss

BNA00584732
HDMSp01756563

Break Sheet

Logical Break

LOGICAL BREAK

BNA00584733

HDMSp01756564

EL009207

INTERNAL LETTER

NORTH AMERICAN AVIATION, INC.

FL11-4-5212

DATE . 11 June 1964

TO . H. Sutherland

ADDRESS (Show Dept., Group, Div. & Location) . D/096-211, Zone 11
Rocketdyne, SSFL

FROM . J. E. Runner

ADDRESS . D/096-211, Zone 12

PHONE . 5031

SUBJECT . 2" and 3" Futurecraft Actuator Modification

This letter will be superseded by Revision E of specification control drawing JS1144200 now in process.

When the 2" and 3" Futurecraft pressure regulators are serviced the following modifications are to be made in the actuator:

(1) O-ring (40) P/N MS29513-18 Buna-N replaced with O-ring P/N MS29513-18 Teflon.

(2) O-ring (38) P/N MS29513-224 Buna-N replaced with O-ring MS29513-224 Teflon.

(3) Delete back up (39) P/N MS28783-2.

(4) Add O-ring P/N MS29513-21 to seal leakage through the actuator bushing threads. Make a thread relief in the actuator and cap for any units which do not already have it.

Each actuator must be run in with one set of Teflon O-rings before the servicing is complete.

J. E. Runner
J. E. Runner
Servo Systems Unit
Analysis and Equipment Section

JER:ss

dc: J. H. Baisley D/096-211

FORM 131-R-1 NEW 1-63

BNA00584734
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